

Title (en)  
Horizontal soldering system with oil blanket

Title (de)  
Waagrechtes Lötungssystem mit Öldecke

Title (fr)  
Système de brasage horizontal avec un recouvrement d'huile

Publication  
**EP 0894561 B1 20030604 (EN)**

Application  
**EP 98401942 A 19980729**

Priority  
US 90390597 A 19970731

Abstract (en)  
[origin: EP0894561A2] A solder immersion chamber in a solder coater/leveler includes a solder manifold 124 having upper and lower solder chambers 126,128, from which solder is directed onto the top and bottom surfaces of printed circuit boards conveyed therebetween. The solder immersion chamber has a pair of driven rollers 134a/134b, 136a/136b at either end thereof for conveying the printed circuit boards through the solder immersion chamber, and for damming and holding the molten solder within the solder immersion chamber. A pair of oil weirs 142,144 is provided adjacent either side of the upper solder chamber for continuously flowing oil to flood the top surface of the molten solder in the solder immersion chamber. A skimmer 148 skims oil from the top surface of the molten solder, and returns the separated oil to the pair of oil weirs.

IPC 1-7  
**B23K 3/06**

IPC 8 full level  
**B23K 1/08** (2006.01); **B23K 3/06** (2006.01); **B23K 3/08** (2006.01); **C23C 2/08** (2006.01); **C23C 2/30** (2006.01); **H05K 3/34** (2006.01)

CPC (source: EP KR US)  
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